This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled)

2. (Currently Amended) The electric machine of claim ~~1~~6, wherein the housing has a coolant fluid circulated therein.

3-5. (Canceled)

6. (Currently Amended) ~~The~~An electric machine ~~of claim 1~~ with cooling rings, comprising:

a housing;

a stator core disposed within the housing and comprising at least one end-turn extending beyond an end of the stator core, the end-turn being potted with a potting material;

a rotor rotatably positioned within the stator core;

a non-laminated thermal conductor ring having a thermal conductivity that is greater than a thermal conductivity of the potting material disposed between the potted stator core end-turn and the housing for conducting heat from the stator core end-turn to the housing, wherein the thermal conductor ring is a non-metallic thermal conductor ring disposed between the potted stator core end-turn and the housing.

7. (Currently Amended) The electric machine of claim ~~1~~6, wherein the thermal conductor ring further comprises an outer face thereof disposed against an inner surface of the housing.

8-9. (Canceled)

10. (Currently Amended) The electric machine of claim ~~1~~6, wherein the thermal conductivity of the thermal conductor ring is at least 90 BTU/hr ft degree F.

11. (Currently Amended) The electric machine of claim ~~1~~6, wherein the thermal conductivity of the thermal conductor ring is at least 300 times greater than the thermal conductivity of the potting material.

12. (Currently Amended) The electric machine of claim ~~1~~6, further comprising a space defined between the potted stator core end-turn and the thermal conductor ring that is filled with the potting material.

13. (Currently Amended) The electric machine of claim ~~1~~6, wherein the potting material is a flexible potting material.

14. (Original) The electric machine of claim 13, wherein the flexible potting material is an elastomeric potting material.

15. (Original) The electric machine of claim 13, wherein the flexible potting material is a viscoelastic potting material.